AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A suction-cleansing device comprising:

a vessel body whose profile has a shape that is at least one of cannonball-like, circular-truncated, half-spherical, and shaped so as to have a swelled part at the vessel body's rear, said vessel body having a hollow portion whose profile converges ~~is converged~~ from ~~its~~ the hollow portion's rear ~~part~~ side to ~~its~~ the hollow portion's front ~~part~~ side;

an air/liquid jetting port ~~secured~~ located at ~~the~~ a front end portion of ~~said~~ the vessel body;

a liquid-introducing pipe connected tangentially to a circumferential wall of the vessel body's~~the~~ rear ~~part side of said vessel body in the tangential direction~~;

an air/liquid jet-guiding portion ~~that is~~, which ~~is~~ located ~~disposed at the outer circumferential~~circumferentially outward from the ~~portion of said~~ air/liquid jetting port, and which extends circumferentially outward from the ~~is widened to open from said~~ air/liquid jetting port in ~~toward~~ a water ~~the~~ jetting direction, the air/liquid jet guiding portion being ~~and~~ is formed to have~~be~~ at least one of a circular-truncated shape, a half-spherical shape, and a disk shape~~-shaped~~; and

a flow-out portion composed of at least one of: notches ~~provided~~ formed in ~~the~~ a front end portion of the air/liquid jet guiding portion and ports formed ~~at~~ in the front ~~part side~~end portion of the air/liquid jet guiding portion,

wherein water flows out of flow-out portion through the at least one of notches and ports.

2. (currently amended): The suction-cleansing device as set forth in Claim 1, including an air self-suction port that is opened and formed on ~~the~~ a rear wall of said vessel body and at a position deviated from at least one of: ~~the~~ an axial center of said vessel body and an air axis formed in said vessel body,

wherein said rear wall is disposed opposite the air/liquid jetting port.

3. (currently amended): The suction-cleansing device as set forth in Claim 2, including a rotating member that is attached by at least one of being screwed in a threaded portion ~~or~~ and being fitted to a fitting portion, wherein the threaded portion and the fitting portion are each ~~which is~~ opened and formed ~~at~~ in the rear wall of said vessel body and said rotating member is rotatably provided in a covered manner ~~at~~ on the rear wall, ~~centering~~ centered around the position deviated from the axial center of said vessel body or the air axis formed in said vessel body, wherein said air self-suction port is formed on said rotating member and formed at a position deviated from the rotating axis of said rotating member.

4. (currently amended): The suction-cleansing device as set forth in Claim 3, including a tank portion, ~~provided so as to~~which coverscover ~~said~~ the rear wall of said vessel body or said rotating member, and which supplies air via ~~said~~ the air self-suction port, and

an air introducing port ~~secured~~ attached to~~at~~ said tank portion.

5. (withdrawn): The suction-cleansing device as set forth in Claim 1, including a water stream jetting nozzle portion whose tip end side is projected so as to be narrowed in its diameter from the rear part wall side of said vessel body and tip end opening portion is disposed inside said air/liquid jetting port, a plug-shaped, conically-shaped or inverted conically-shaped water stream regulating member disposed in the vicinity of the tip end of the nozzle via a rod-like supporting member inserted into said water stream jetting nozzle portion; and a position regulating and fixing portion, provided at the rear part wall side of said vessel body, which supports the base end side of said supporting member so as to advance and retreat or to be fixed.

6. (withdrawn): The suction-cleansing device as set forth in any one of Claims 1 through 5, including an inclined portion whose diameter is increased at a prescribed angle toward the jetting side on the inner circumferential wall of said air/liquid jetting port, and a flattened portion formed in contact with the front of said inclined portion.

7. (withdrawn): The suction-cleansing device as set forth in any one of Claims 1 through 6, including a flow-out portion provided by cutting off the front side edge portion of said air/liquid jet-guiding portion or opened to the front part side of said air/liquid jet-guiding portion.

8. (withdrawn): The suction-cleansing device as set forth in any one of Claims 1 through 7, including a splash-preventing portion circumferentially provided toward the rear of the front side edge portion of said air/liquid jet-guiding portion.

9. (withdrawn): The suction-cleansing device as set forth in Claim 7, including a water stream collecting portion for collecting streams of water discharged from the flow-out portion of said air/liquid jet-guiding portion.

10. (withdrawn): The suction-cleansing device as set forth in Claim 9, including a flow-out regulating portion whose base end is rotatably disposed by means of a hinge on the circumferential edge portion of said air/liquid jet-guiding portion and whose roughly half-spherical circumferential edge portion shields the flow-out portion of said air/liquid jet-guiding portion.

11. (withdrawn): A cleansing apparatus comprising a suction-cleansing device as set forth in any one of Claims 1 through 10, and a pump for supplying a cleansing liquid into said liquid-introducing pipe of said suction-cleansing device.

12. (withdrawn): The cleansing apparatus as set forth in Claim 11, wherein a pump air self-suction port for suctioning air is provided in a suction pipe for supplying a cleansing liquid, which is attached to the suction side of said pump.

13. (currently amended): The suction-cleansing device as set forth in claim 1, wherein the water flowing~~flows~~ out of the notches ~~of~~or the flow-out portion~~, creating~~ creates suction ~~at~~ in the air/liquid jetting port.

14. (currently amended): The suction-cleansing device as set forth in claim 2, including a tank portion~~, provided so as to~~ which covers ~~said~~ the rear wall of ~~said~~ the vessel body, which supplies air via ~~said~~ the air self-suction port, and

an air introducing port ~~secured at~~attached to said tank portion.

15. (currently amended): A suction-cleansing device comprising:

a vessel body having a hollow portion whose profile ~~is converged~~converges from ~~its~~ the hollow portion's rear ~~part~~ side to ~~its~~ the hollow portion's front ~~part~~ side;

an air/liquid jetting port ~~secured~~ located at ~~the~~ a front end portion of ~~said~~ the vessel body;

a liquid-introducing pipe connected tangentially to a circumferential wall of the vessel body's ~~rear~~ rear ~~part~~ side ~~of said vessel body in the tangential direction~~;

an air/liquid jet-guiding portion ~~that is disposed at the outer circumferential portion of said~~ which is located circumferentially outward from the air/liquid jetting port and which extends circumferentially outward from the air/liquid jetting port in a water jetting direction ~~and is widened to open from said air/liquid jetting port toward the jetting direction~~;

a flow-out portion composed of at least one of: notches ~~formed~~provided in ~~the~~a front end portion of the air/liquid jet guiding portion and ports formed ~~at~~ in the front ~~part side~~end portion of the air/liquid jet guiding portion,

wherein water flows out of the flow-out portion through the at least one of notches and ports;

an air self-suction port that is opened and formed on a rear wall of the vessel body and at a position deviated from ~~the~~ an axial center of said vessel body or from an air axis formed in said vessel body ~~on the rear wall of said vessel body~~; and

a tank portion, which covers ~~provided so as to cover said~~ the rear wall of said vessel body, and which supplies air via ~~said~~ the air self-suction port, and

an air introducing port ~~secured~~ attached to~~at~~ said tank portion.

16. (currently amended): A suction-cleansing device comprising:

a vessel body having a hollow portion whose profile ~~is convergedconverges~~ from ~~itsthe~~ hollow portion's rear ~~part~~ side to ~~its~~ the hollow portion's front ~~part~~ side;

an air/liquid jetting port located ~~secured~~ at ~~the~~ a front ~~end portion~~side of ~~said~~ the vessel body;

a liquid-introducing pipe connected tangentially to a circumferential wall of the vessel body's ~~rear~~ rear ~~part~~ side ~~of said vessel body in the tangential direction~~;

an air/liquid jet-guiding portion ~~that is disposed at the outer circumferential portion of said~~ which is located circumferentially outward from the air/liquid jetting port and which extends circumferentially outward from the air/liquid jetting portion in a water jetting direction ~~is widened to open from said air/liquid jetting port toward the jetting direction~~;

a flow-out portion composed of at least one of: notches formed~~provided~~ in ~~the~~ a front end portion of the air/liquid jet guiding portion and ports formed ~~at~~ in the front ~~part~~ end portion~~side~~ of the air/liquid jet guiding portion;

wherein water flows out of the flow-out portion through the at least one of notches and ports;

an air self-suction port that is opened and formed on a rear wall of the vessel body and at a position deviated from ~~the~~ an axial center of said vessel body or from an air axis formed in said vessel body ~~on the rear wall of said vessel body~~;

a rotating member that is attached by at least one of being screwed in a threaded portion ~~or~~ and being fitted to a fitting portion, wherein the threaded portion and the fitting position are each ~~which is~~ opened and formed ~~at~~ in the rear wall of said vessel body and said rotating member is rotatably provided in a covered manner ~~at~~ on the rear wall, ~~centering~~ centered around the position deviated from the axial center of said vessel body or the air axis formed in said vessel body, wherein said air self-suction port is formed on said rotating member and formed at a position deviated from ~~the~~ a rotating axis of said rotating member; and

a tank portion, which covers~~provided so as to cover said~~ the rear wall of said vessel body or said rotating member, and which supplies air via ~~said~~ the air self-suction port, and \

an air introducing port attached ~~secured at~~ to said tank portion.